



US Army Corps  
of Engineers  
Alaska District

# Public Notice of Application for Permit

Regulatory Branch (1145b)  
Post Office Box 6898  
Elmendorf AFB, Alaska 99506-6898

PUBLIC NOTICE DATE: 6 April 2004

EXPIRATION DATE: 6 May 2004

REFERENCE NUMBER: POA-2004-449-4

WATERWAY NUMBER: Clam Creek

Interested parties are hereby notified that an application has been received for a Department of the Army permit for certain work in waters of the United States as described below and shown on the attached plan.

APPLICANT: UNOCAL, Post Office Box 196247, Anchorage, Alaska 99519-6247

LOCATION: Extension off East Road, near Happy Valley, Section 36, Township 2 South, Range 14 West; Section 6 & 5, Township 3 South, Range 13 West, Seward Meridian. Latitude-  $59.9531^{\circ}$  North, Longitude-  $151.5950^{\circ}$  West.

WORK: The proposed project is the construction of 2.33 miles of spur road, from an existing logging road, on private and state land. The project involves crossing 4 wetland areas (1.44 acres), which includes the bridging of Clam Creek. Construction and fill materials include 6,800 cubic yards of gravel, gabions, geotextile material and bridge deck.

PURPOSE: The road extension is needed to access an exploration pad located in uplands.

ADDITIONAL INFORMATION: For additional site-specific information, please contact Debra Oylear (UNOCAL) at 907-263-7627, or Sandra Hamann (Hoeftler Consulting Group) at 907-563-2137.

MITIGATION: As a result of early project planning and preapplication coordination, the applicant has incorporated into the proposed project the following mitigation efforts to reduce impacts to the aquatic environment:

- a. Locating the pad in order to drill two prospects from a single pad located between the two pads originally planned for this project.
- b. Selection of a route that minimizes wetland fill.
- c. Install culverts where wetland drainage is most prominent to maintain the local hydrologic regime
- d. Routing access in a manner to cross Clam Creek only once, with a span bridge, to minimize stream impacts.

WATER QUALITY CERTIFICATION: A permit for the described work will not be issued until a certification or waiver of certification as required under Section 401 of the Clean Water Act (Public Law 95-217), has been received from the Alaska Department of Environmental Conservation.

COASTAL ZONE MANAGEMENT ACT CERTIFICATION: Section 307(c)(3) of the Coastal Zone, Management Act of 1972, as amended by 16 U.S.C. 1456(c)(3), requires the applicant to certify that the described activity affecting land or water uses in the Coastal Zone complies with the Alaska Coastal Management Program. A permit will not be issued until the Office of Project Management and Permitting, Department of Natural Resources has concurred with the applicant's certification.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing.

CULTURAL RESOURCES: The latest published version of the Alaska Heritage Resources Survey (AHRS) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There are no listed or eligible properties in the vicinity of the worksite, however the applicant has conducted a survey of cultural, historical and archaeological resources within the project area and has submitted the findings to the State Historic Preservation Officer (SHPO). Consultation of the AHRS constitutes the extent of cultural resource investigations by the District Engineer at this time, and he is otherwise unaware of the presence of such resources. This application is being coordinated with the SHPO. Any comments SHPO may have concerning presently unknown archeological or historic data that may be lost or destroyed by work under the requested permit will be considered in our final assessment of the described work.

TRIBAL CONSULTATION: The Alaska District fully supports tribal self-governance and government-to-government relations between the Federal government and Federally recognized Tribes. This notice invites participation by agencies, Tribes, and members of the public in the Federal decision-making process. In addition, Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This Public Notice serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Engineer during the public comment period.

ENDANGERED SPECIES: No threatened or endangered species are known to use the project area. Preliminarily, the described activity will not affect threatened or endangered species, or their critical habitat designated as endangered or threatened, under the Endangered Species Act of 1973 (87 Stat. 844). This application is being coordinated with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Any comments they may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

ESSENTIAL FISH HABITAT: The proposed work is being evaluated for possible effects to Essential Fish Habitat (EFH) pursuant to the Magnuson Stevens Fishery Conservation and Management Act of 1996 (MSFCMA), 16 U.S.C. et seq and associated federal regulations found at 50 CFR 600 Subpart K. The Alaska District includes areas of EFH as Fishery Management Plans. We have reviewed the January 20, 1999, North Pacific Fishery Management Council's Environmental Assessment to locate EFH area as identified by the National Marine Fisheries Service (NMFS). We have determined that the described activity within the proposed area will not adversely affect EFH, including anadromous fish and federally managed fishery resources.

SPECIAL AREA DESIGNATION: None.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the described work, with the reference number, should reach this office no later than the expiration date of this Public Notice to become part of the record and be considered in the decision. Please contact Medrick R. Northrop at (907) 753-2724, toll free from within Alaska at (800) 478-2712, or by email at [medrick.r.northrop@poa02.usace.army.mil](mailto:medrick.r.northrop@poa02.usace.army.mil) if you have any questions concerning this notice.

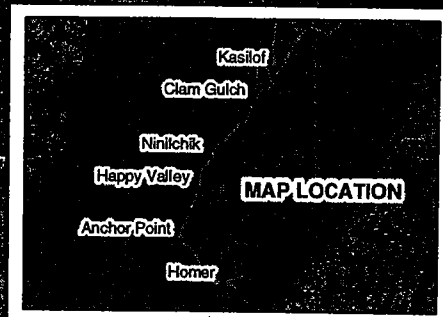
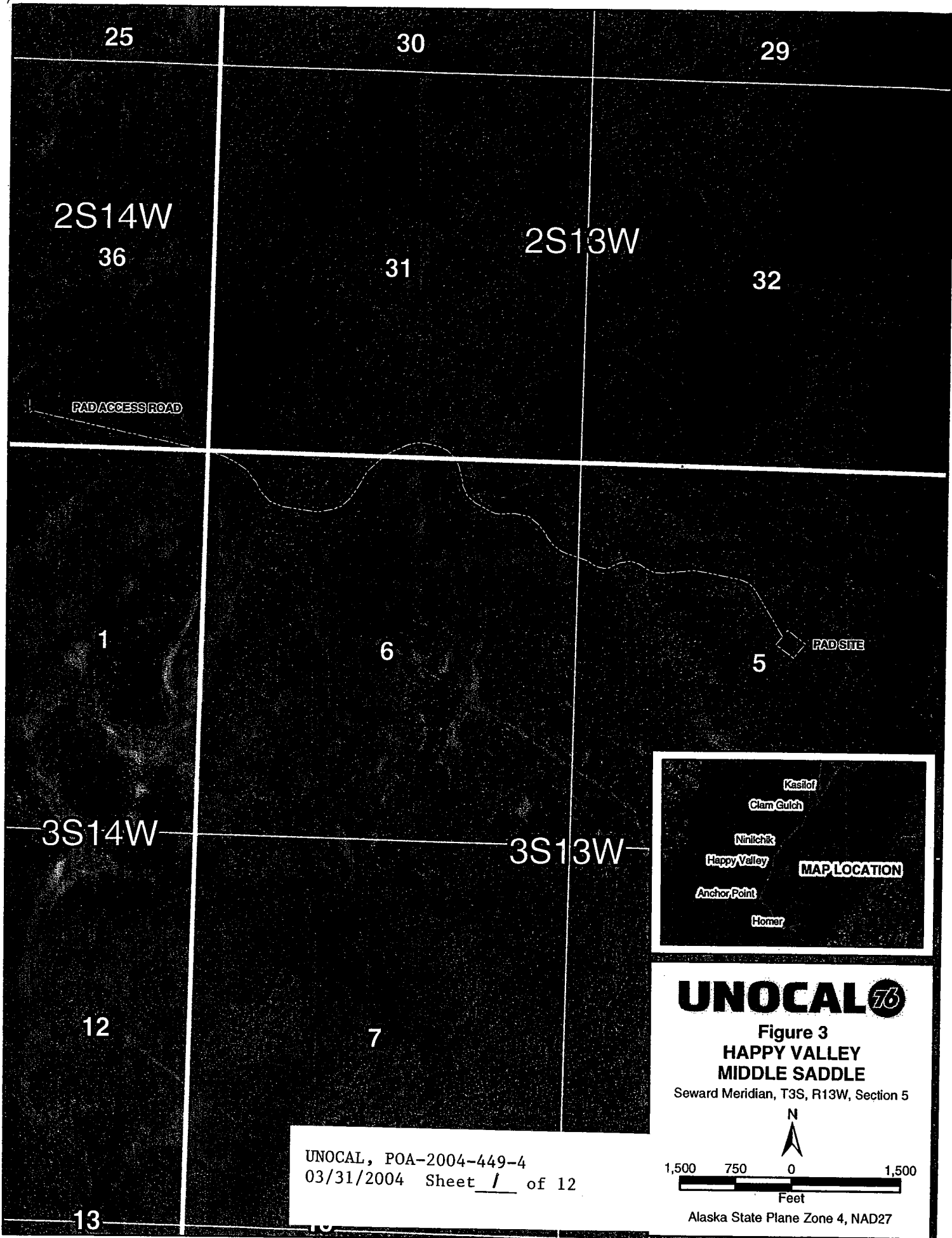
AUTHORITY: This permit will be issued or denied under the following authority:

Discharge dredged or fill material into waters of the United States - Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).

A plan, Notice of Application for Certification of Consistency with the Alaska Coastal Management Program, and Notice of Application for State Water Quality Certification are attached to this Public Notice.

District Engineer  
U.S. Army, Corps of Engineers

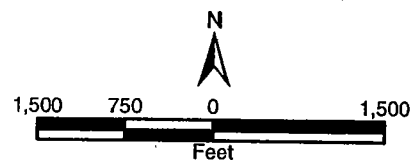
Attachments



**UNOCAL** 76

**Figure 3  
HAPPY VALLEY  
MIDDLE SADDLE**

Seward Meridian, T3S, R13W, Section 5



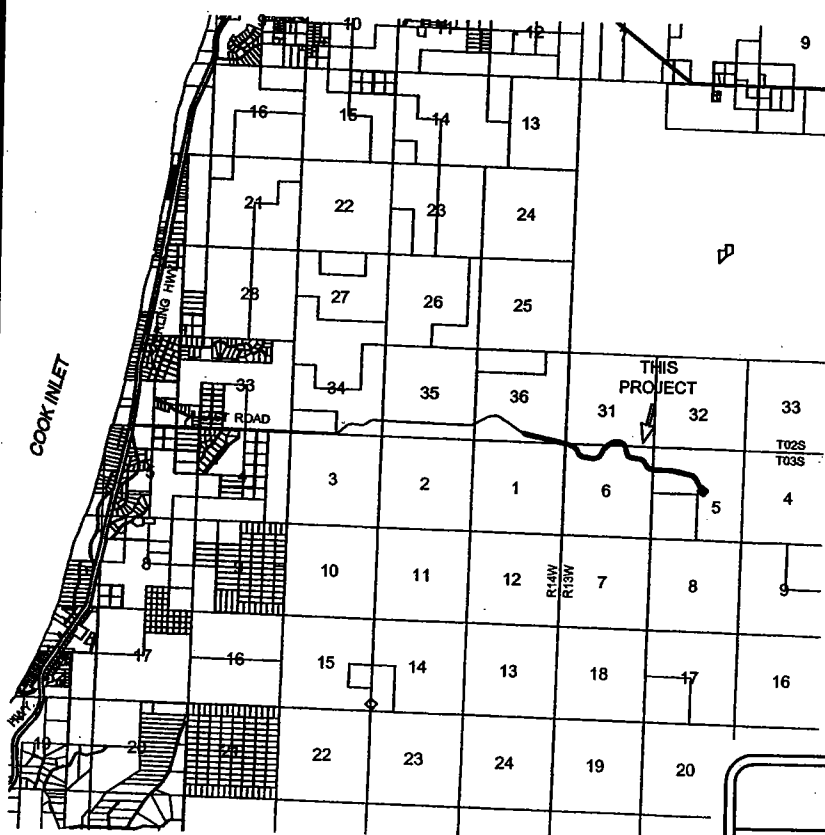
Alaska State Plane Zone 4, NAD27

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 1 of 12



Alaska Oil & Gas Division

# HAPPY VALLEY MIDDLE SADDLE EXPLORATION PAD CONSTRUCTION PROJECT



VICINITY MAP  
SCALE: 1" = 2 MILES  
QUAD MAP SELDOVIA D5

## LEGEND

- SURVEY MONUMENT
- CONTROL POINT
- POWER POLE
- TREE LINE
- FILL DAYLIGHT LIMITS
- CUT DAYLIGHT LIMITS
- SECTION BOUNDARY
- ALIGNMENT CENTERLINE
- CONTOUR LINE

## GENERAL NOTES

1. BASIS OF COORDINATES IS NGS MONUMENT W86 AT MILEPOST 146.7 OF THE STERLING HIGHWAY. LATITUDE AND LONGITUDE VALUES WERE DETERMINED FROM THE KEN1 CORE STATION, USING NAD27 DATUM.
2. BASIS OF VERTICAL CONTROL WAS FROM NGS MONUMENT W86 AT MILEPOST 119.1 OF THE STERLING HIGHWAY, ELEVATION = 274.86 FEET (NAVD88).
3. FIELD WORK CONDUCTED FROM NOVEMBER 2003 TO JANUARY 2004. LOCATIONS & OBJECTS HEREON REPRESENT AS-BUILT CONDITIONS, THAT TIME PERIOD.
4. ALL DISTANCES LISTED IN FEET.

PROJECT HVMS EXPLORATION PROJECT

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W S.M.

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 2 of 12

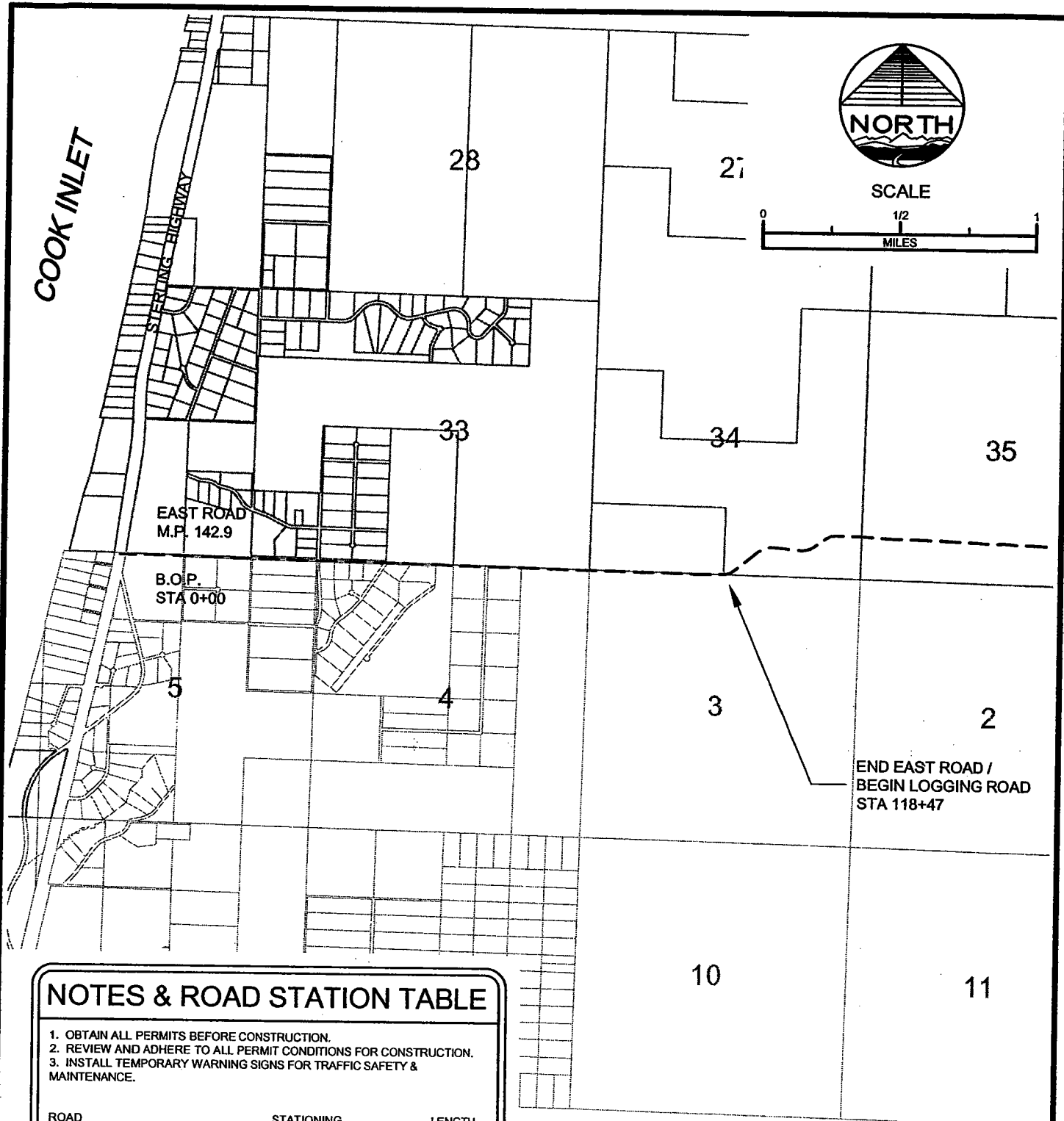


Consulting Group  
McLane Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK. 99669  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECONG.COM



REVISION: 2  
DATE: 3/22/04  
DRAWN BY: CRM  
SCALE: 1"=2 MI  
PROJECT NO. 033012  
BOOK NO. 03-01  
SHEET 1 OF 11



## NOTES & ROAD STATION TABLE

1. OBTAIN ALL PERMITS BEFORE CONSTRUCTION.
2. REVIEW AND ADHERE TO ALL PERMIT CONDITIONS FOR CONSTRUCTION.
3. INSTALL TEMPORARY WARNING SIGNS FOR TRAFFIC SAFETY & MAINTENANCE.

ROAD	STATIONING	LENGTH
EAST ROAD (KPB)	0+00 - 118+47	11847 LF
EXISTING LOGGING ROAD	118+47 - 233+20	11473 LF
NEW ROAD CONSTRUCTION	233+20 - 356+23	12303 LF

PROJECT HVMS EXPLORATION PROJECT T

LOCATION

ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W SM

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 3 of 12



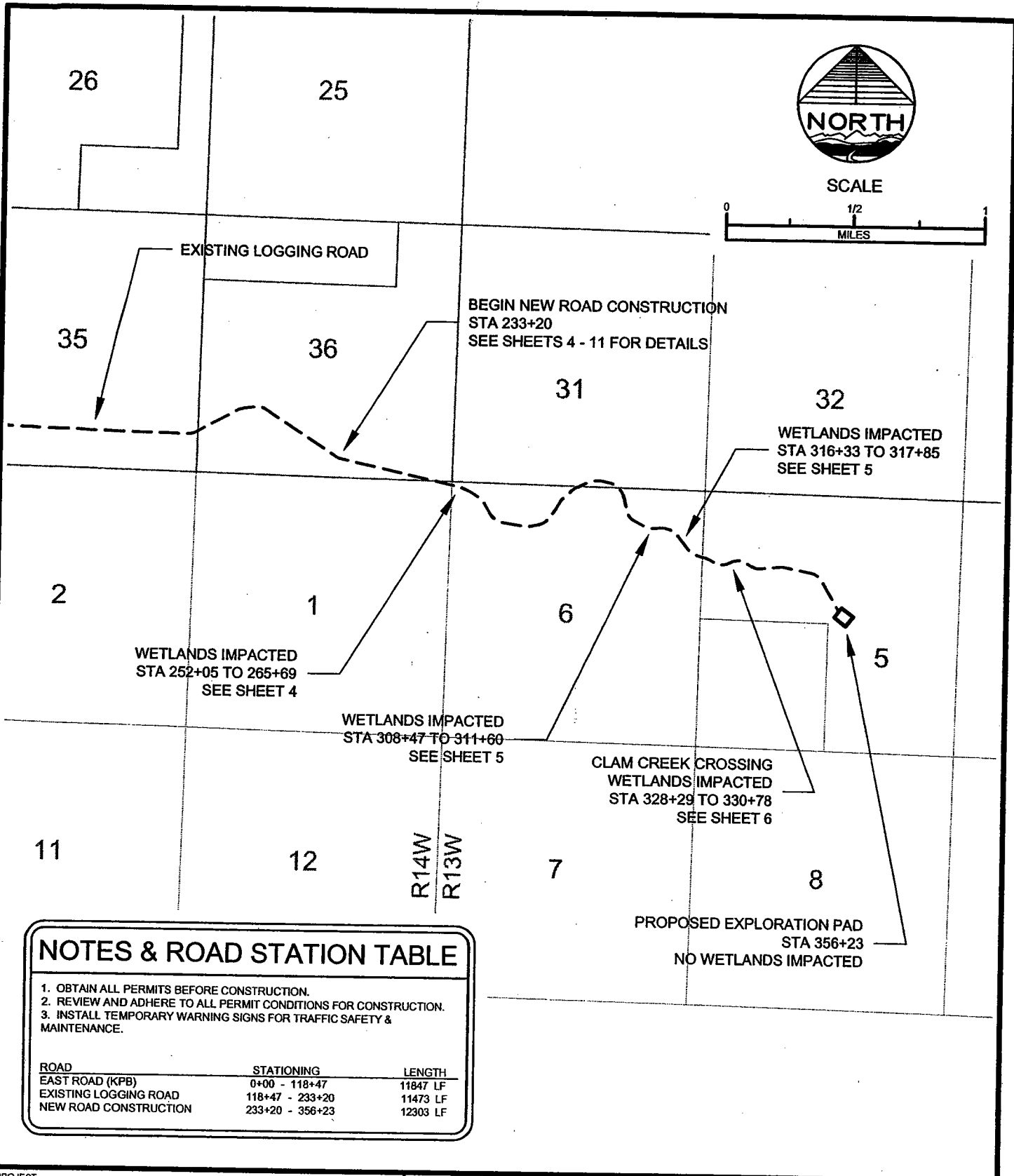
Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK 99689  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECONG.COM

**UNOCAL**

REVISION: 2  
DATE: 3/22/04  
DRAWN BY: CRM  
SCALE: 2"=1 MILE  
PROJECT NO. 033102  
BOOK NO. 30-01  
SHEET  
**2** OF 11

HARNESS



### NOTES & ROAD STATION TABLE

1. OBTAIN ALL PERMITS BEFORE CONSTRUCTION.
2. REVIEW AND ADHERE TO ALL PERMIT CONDITIONS FOR CONSTRUCTION.
3. INSTALL TEMPORARY WARNING SIGNS FOR TRAFFIC SAFETY & MAINTENANCE.

ROAD	STATIONING	LENGTH
EAST ROAD (KPB)	0+00 - 118+47	11847 LF
EXISTING LOGGING ROAD	118+47 - 233+20	11473 LF
NEW ROAD CONSTRUCTION	233+20 - 356+23	12303 LF

PROJECT HVMS EXPLORATION PROJECT

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W SM



Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK 99689  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 4 of 12

REVISION: 2  
DATE: 3/22/04  
DRAWN BY: DRAWN?  
SCALE: 2"=1\_MILE  
PROJECT NO. 033102  
BOOK NO. 03-01  
SHEET

3 OF 11

**UNOCAL**

ARNES

CIRI OWNERSHIP

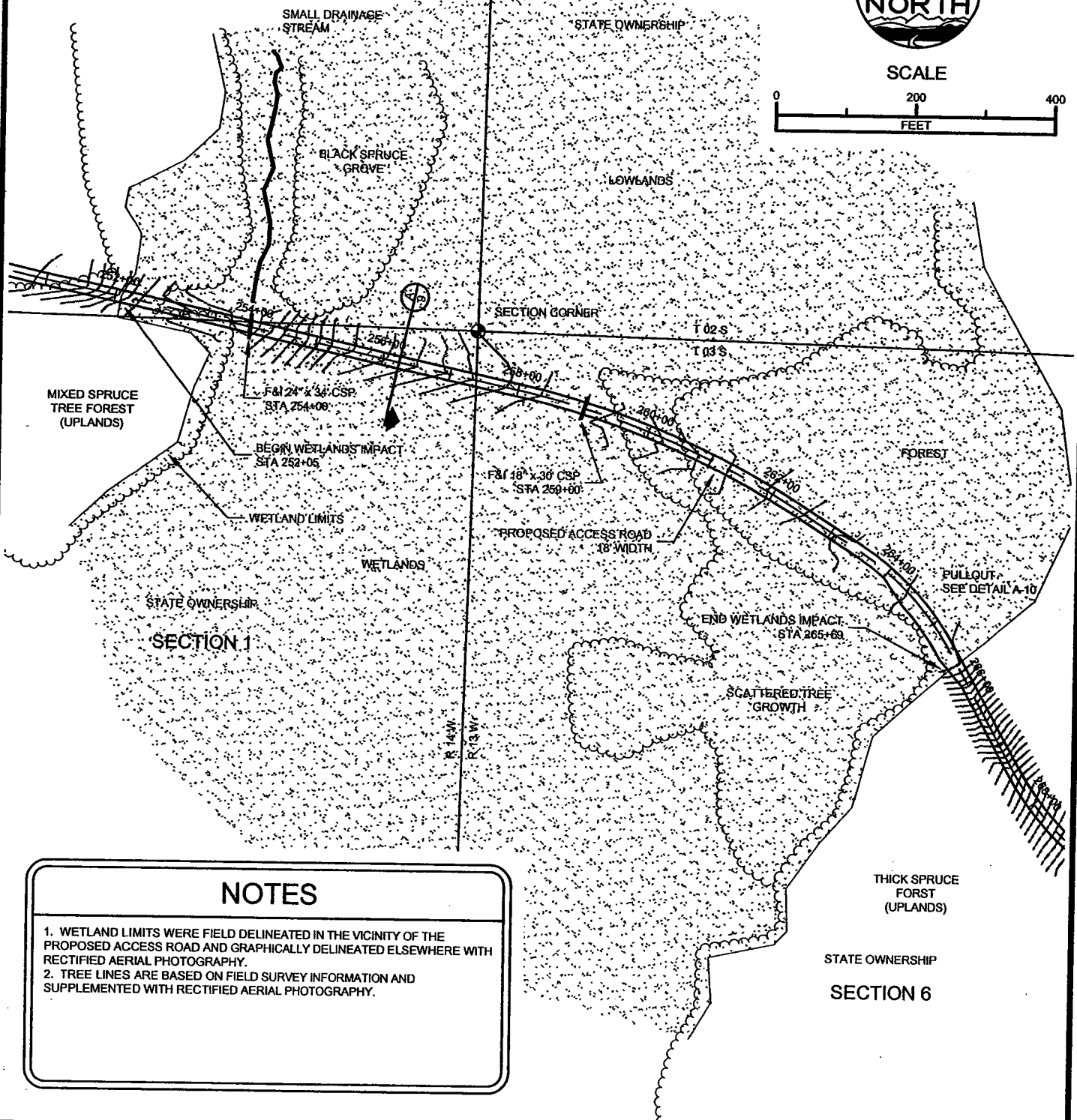
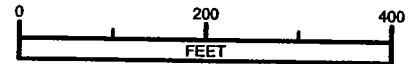
SECTION 36

SECTION 31

STATE OWNERSHIP



SCALE



NOTES

1. WETLAND LIMITS WERE FIELD DELINEATED IN THE VICINITY OF THE PROPOSED ACCESS ROAD AND GRAPHICALLY DELINEATED ELSEWHERE WITH RECTIFIED AERIAL PHOTOGRAPHY.
2. TREE LINES ARE BASED ON FIELD SURVEY INFORMATION AND SUPPLEMENTED WITH RECTIFIED AERIAL PHOTOGRAPHY.

PROJECT HVMS EXPLORATION PROJECT

LOCATION ACCESS ROAD AND PAD IN T02S R14W, T03S R14W, T03S R13W, T02S R13W SM

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 5 of 12

REVISION: 2

DATE: 3/22/04

DRAWN BY: CRM

SCALE: 1"=200'

PROJECT NO. 033102

BOOK NO. 03-01

SHEET

4 OF 11



Consulting Group  
Testing

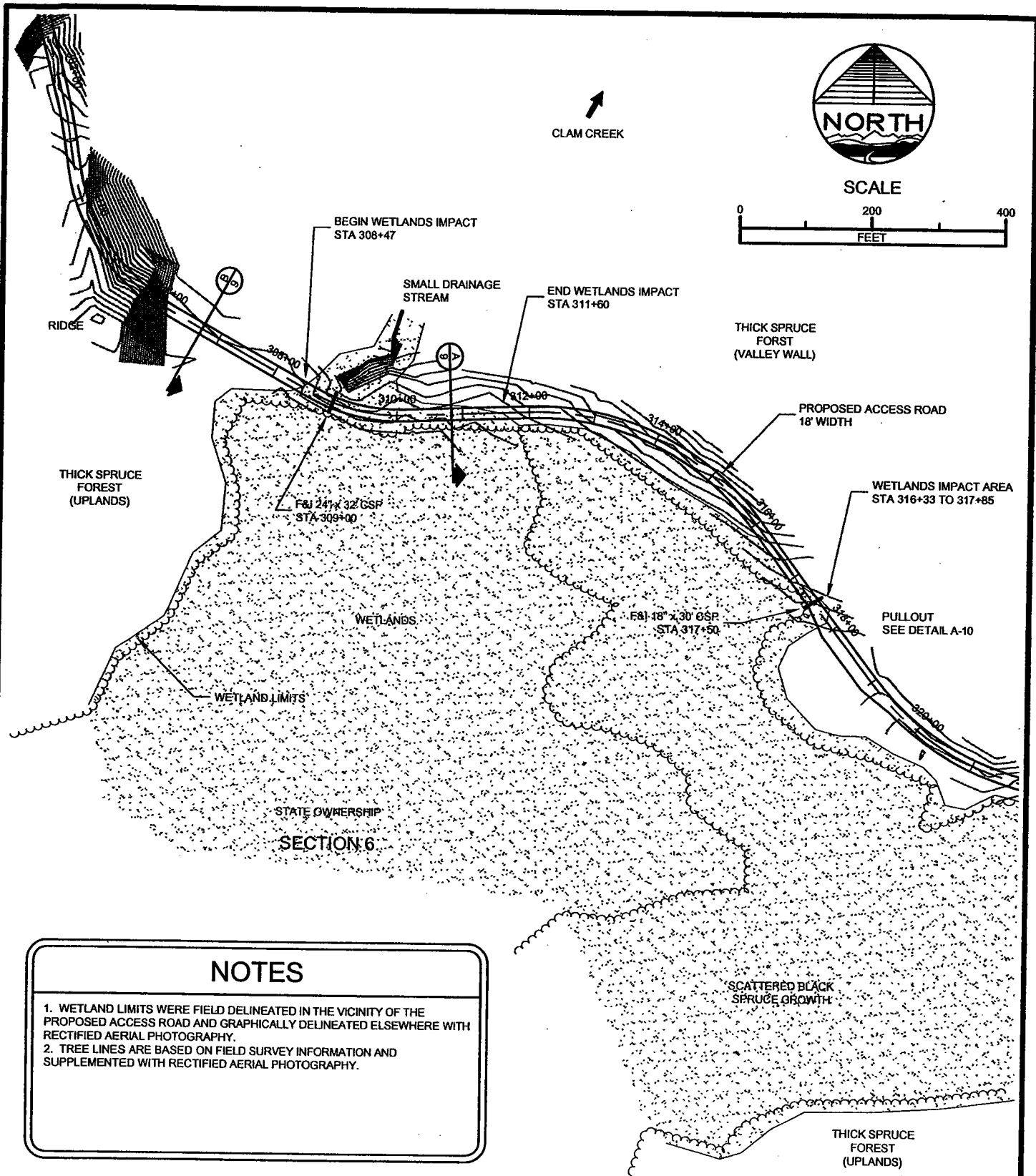
ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK 99688  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

**UNOCAL**



JARNES





## NOTES

1. WETLAND LIMITS WERE FIELD DELINEATED IN THE VICINITY OF THE PROPOSED ACCESS ROAD AND GRAPHICALLY DELINEATED ELSEWHERE WITH RECTIFIED AERIAL PHOTOGRAPHY.
2. TREE LINES ARE BASED ON FIELD SURVEY INFORMATION AND SUPPLEMENTED WITH RECTIFIED AERIAL PHOTOGRAPHY.

PROJECT HVMS EXPLORATION PROJECT

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W SM

PURP

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 6 of 12

APPLI

REVISION: 2

DATE: 3/22/04

DRAWN BY: CRM

SCALE: 1"=200'

PROJECT NO. 033102

BOOK NO. 03-01

SHEET

5 OF 11



Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 466 SOLDOTNA, AK 99689  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

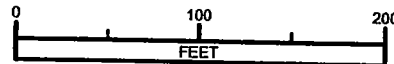
**UNOCAL**

THICK ALDERS  
w/ SCATTERED  
SPRUCE TREES  
(LOWLANDS)

THICK SPRUCE  
FOREST  
(VALLEY WALL)



SCALE



CLAM CREEK LIMITS  
(AERIAL PHOTOGRAPHY)

AREA LOGGED

END WETLANDS IMPACT  
STA 330+78

WETLANDS

TOP OF BANK  
CLAM CREEK

330+00

SEE SHEET 7 FOR  
BRIDGE DETAIL

UPLANDS

328+00

PULLOUT  
SEE DETAIL A-10

BEGIN WETLANDS IMPACT  
STA 328+29

THICK SPRUCE  
FOREST  
(VALLEY WALL)

CLAM CREEK LIMITS  
(FIELD SURVEY)

WETLAND LIMITS

WETLAND LIMITS  
& SLOPE TOE

THICK SPRUCE  
FOREST

THICK ALDERS  
w/ SCATTERED  
SPRUCE TREES  
(FLOOD PLAIN)

CIRI OWNERSHIP

SECTION 5

## NOTES

1. WETLAND LIMITS WERE FIELD DELINEATED IN THE VICINITY OF THE PROPOSED ACCESS ROAD AND GRAPHICALLY DELINEATED ELSEWHERE WITH RECTIFIED AERIAL PHOTOGRAPHY.
2. TREE LINES AND CLAM CREEK LIMITS ARE BASED ON FIELD SURVEY INFORMATION AND SUPPLEMENTED WITH RECTIFIED AERIAL PHOTOGRAPHY.

PROJECT HVMS EXPLORATION PROJECT

LOCATION

ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W SM

REVISION: 2

DATE: 3/22/04

DRAWN BY: DRAWN7

SCALE: 1"=200'

PROJECT NO. 033102

BOOK NO. 03-01

SHEET

6 OF 11



Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK 99689  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

DATE

UNOCAL, POA-2004-449-4

APR

03/31/2004 Sheet 7 of 12

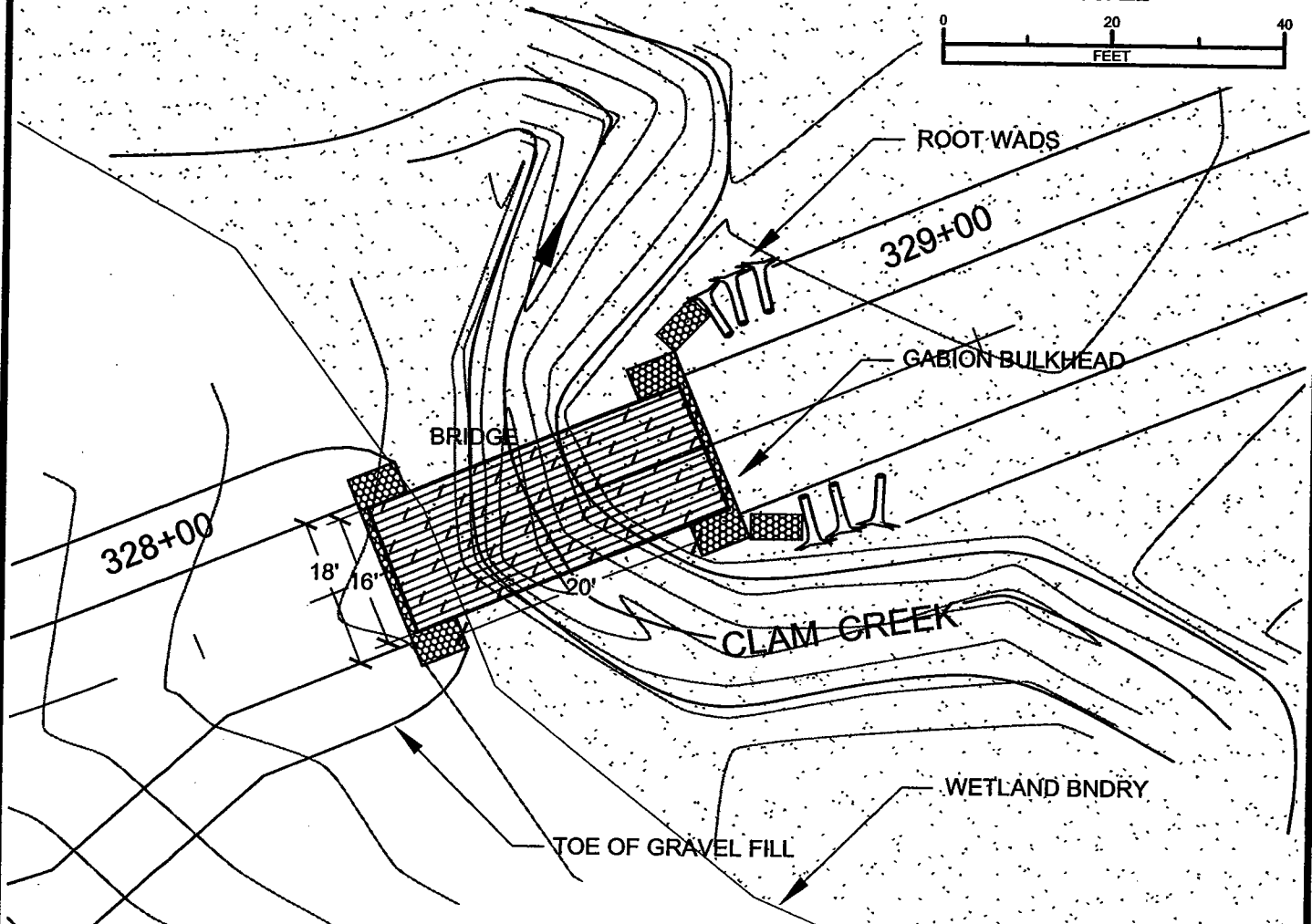
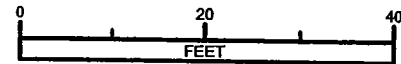
PROCESS

**UNOCAL**

# BRIDGE PLAN VIEW



SCALE



## NOTES

1. WETLAND LIMITS WERE FIELD DELINEATED IN THE VICINITY OF THE PROPOSED ACCESS ROAD AND GRAPHICALLY DELINEATED ELSEWHERE WITH RECTIFIED AERIAL PHOTOGRAPHY.
2. TREE LINES ARE BASED ON FIELD SURVEY INFORMATION AND SUPPLEMENTED WITH RECTIFIED AERIAL PHOTOGRAPHY.
3. SEE PLAN SHT 8 FOR ELEVATION VIEW.

PROJECT HVMS EXPLORATION PROJECT

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W S.M.

REVISION: -

DATE: 2/27/04

DRAWN BY: SAM

SCALE: 1" = 20'

PROJECT NO. 033102

BOOK NO. 03-01

SHEET

7 of 11



Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK 99689  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

**UNOCAL**

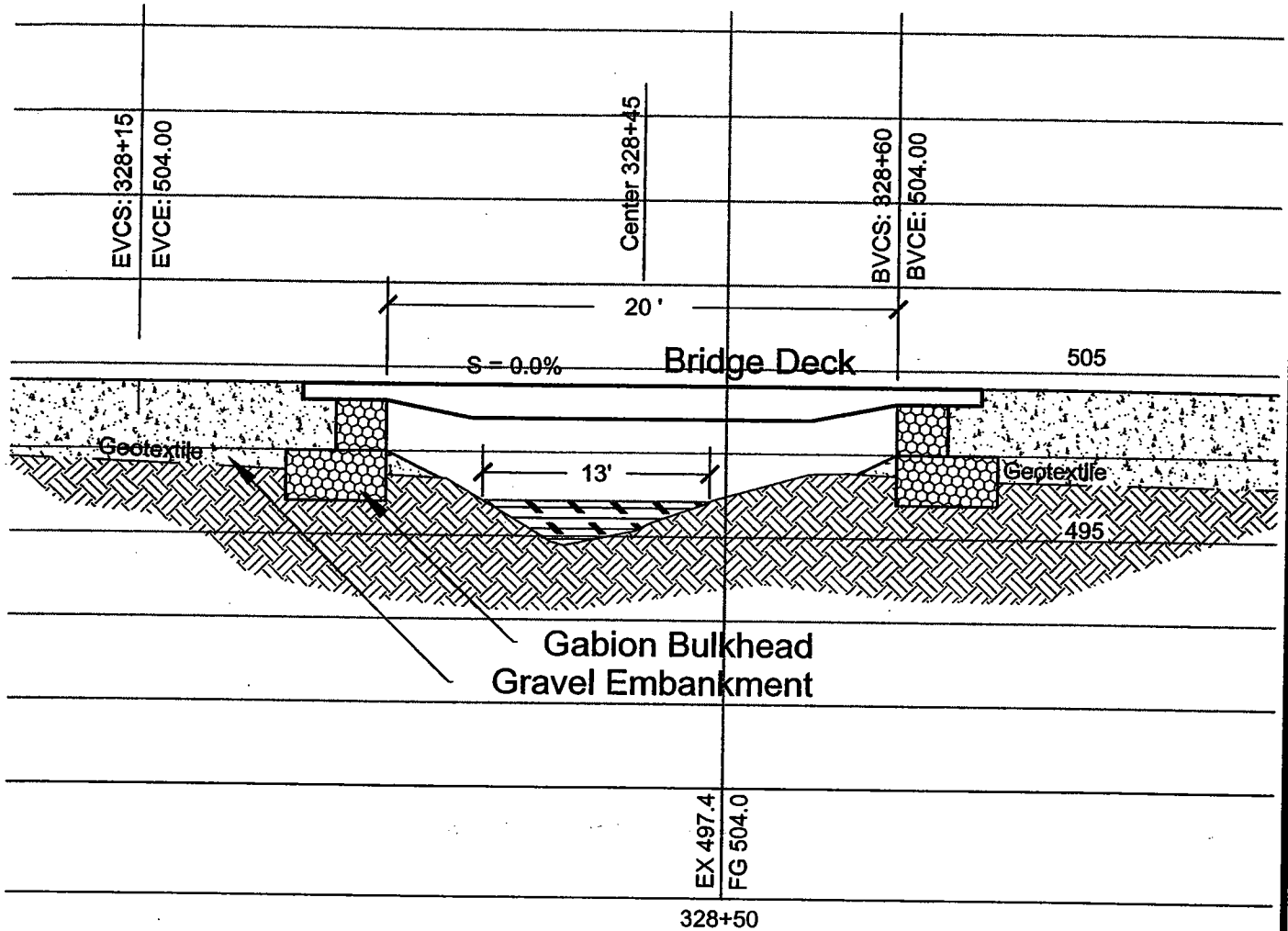
PURP

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 8 of 12

APPLI

DATE: 03/31/2004

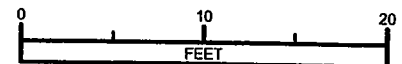
# ELEVATION VIEW



## NOTES

1. NO IN WATER WORK.
2. USE SILT FENCE AND OTHER BMPs TO SEPARATE WORK AREA FROM STREAM.

SCALE



PROJECT HVMS EXPLORATION PROJECT

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W S.M.

REVISION: -

DATE: 2/27/04

DRAWN BY: SAM

SCALE: 1" = 10'

PROJECT NO. 033102

BOOK NO. 03-01

SHEET

8 OF 11



Consulting Group  
Testing

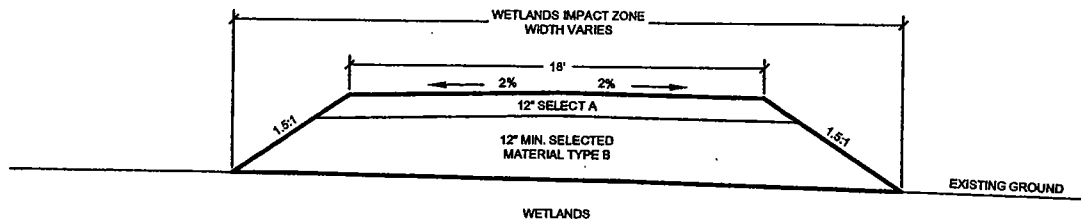
ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 488 SOLDOTNA, AK 99689  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECEG.COM

PURPOSE

UNOCAL, POA-2004-449-4

APPLIC 03/31/2004 Sheet 9 of 12

**UNOCAL**

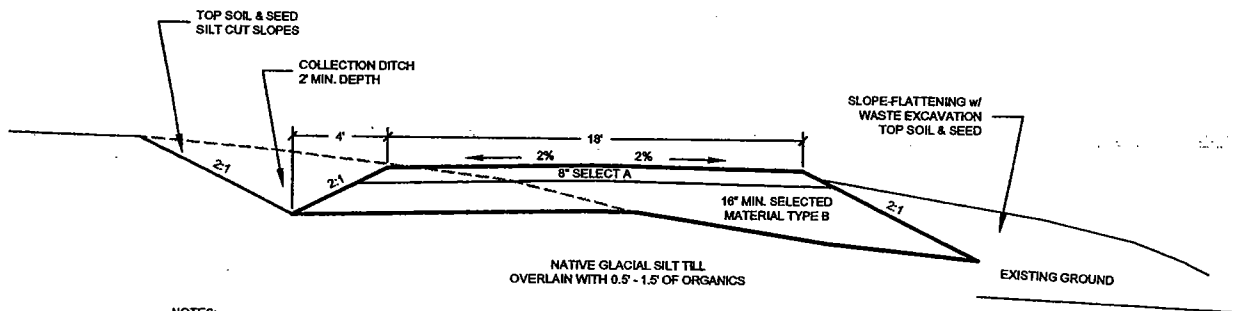


**NOTES:**

1. ALL WASTE EXCAVATION SHALL BE PLACED IN DESIGNATED STORAGE BERMS OR REMOVED AND PLACED IN A CONTRACTOR SUPPLIED DISPOSAL SITE.
2. GRAVEL FILL SHALL BE PLACED IN NO GREATER THAN 8" LIFTS AND COMPACTED TO 85 % OF MAXIMUM DENSITY, AS DETERMINED BY THE ENGINEER.
3. TOP 4" SELECTED MATERIAL TYPE A SHALL BE COBBLE FREE (3" MINUS).
4. SELECTED MATERIAL TYPE A SHALL BE UNDERLAIN WITH GEOTEXTILE, AMOCO 2002 OR EQUIVALENT.
5. IN WETLAND AREAS GEOTEXTILE MAY BE USED TO HELP STABILIZE GRAVEL FILL AS DETERMINED BY THE ENGINEER.
6. EXISTING GROUND VARIES THROUGHOUT PROPOSED ROAD ALIGNMENT.
7. IN WETLAND AREAS CONTRACTOR MAY NOT PLACE FILL, REMOVE NATIVE MATERIAL, OR RUN EQUIPMENT OUTSIDE DESIGNATED CONSTRUCTION ZONE AS MARKED IN FIELD BY THE ENGINEER.

## A 9 TYPICAL ACCESS ROAD SECTION - WETLANDS

SCALE: N.T.S.



**NOTES:**

1. ALL WASTE EXCAVATION SHALL BE USED AS SLOPE-FLATTENING MATERIAL WHERE POSSIBLE OR REMOVED AND PLACED IN DESIGNATED STORAGE AREAS AS DIRECTED BY THE ENGINEER. WASTE EXCAVATION MAY NOT BE PLACED IN WETLAND AREAS AND MUST BE SEEDDED IF USED AS SLOPE-FLATTENING MATERIAL.
2. GRAVEL FILL SHALL BE PLACED IN NO GREATER THAN 8" LIFTS AND COMPACTED TO 85 % OF MAXIMUM DENSITY, AS DETERMINED BY THE ENGINEER.
3. TOP 4" SELECTED MATERIAL TYPE A SHALL BE COBBLE FREE (3" MINUS).
4. SELECTED MATERIAL TYPE A SHALL BE UNDERLAIN WITH GEOTEXTILE, AMOCO 2002 OR EQUIVALENT.
5. ALL DISTURBED SILT SLOPES SHALL RECEIVE 4" OF TOP SOIL AND SEEDING.
6. EXISTING GROUND VARIES THROUGHOUT PROPOSED ROAD ALIGNMENT.
7. IN WETLAND AREAS CONTRACTOR MAY NOT PLACE FILL, REMOVE NATIVE MATERIAL, OR RUN EQUIPMENT OUTSIDE DESIGNATED CONSTRUCTION ZONE AS MARKED IN FIELD BY THE ENGINEER.

## B 9 TYPICAL ACCESS ROAD SECTION - UPLANDS

SCALE: N.T.S.

PROJECT HVMS EXPLORATION PROJECT

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W SM

REVISION: 2

DATE: 3/22/04

DRAWN BY: CRM

SCALE: N/A

PROJECT NO. 033102

BOOK NO. 03-01

SHEET

9 of 11



Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK 99689  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

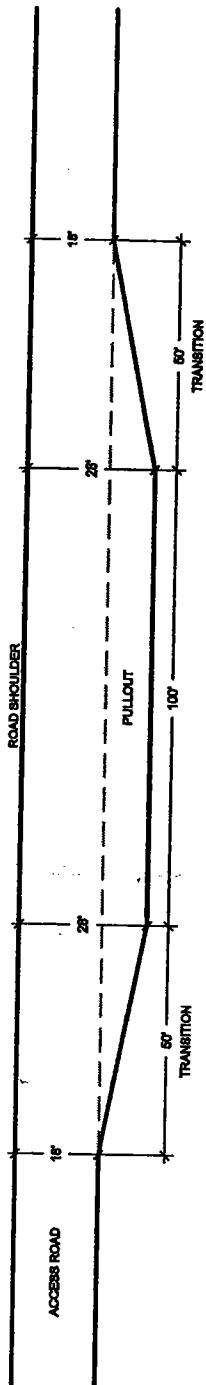
**UNOCAL**

PURPOSE

UNOCAL, POA-2004-449-4

APPLIC 03/31/2004 Sheet 10 of 12

ESS



- NOTES:
1. ALL WASTE EXCAVATION SHALL BE USED AS SLOPE-FLATTENING MATERIAL WHERE POSSIBLE OR REMOVED AND PLACED IN DESIGNATED STORAGE AREAS AS DIRECTED BY THE ENGINEER.
  2. WASTE EXCAVATION MAY NOT BE PLACED IN WETLAND AREAS AND MUST BE SEEDING IF USED AS SLOPE-FLATTENING MATERIAL.
  3. GRAVEL FILL SHALL BE PLACED IN NO GREATER THAN 8" LIFTS AND COMPACTED TO 88% OF MAXIMUM DENSITY, AS DETERMINED BY THE ENGINEER.
  4. TOP 4" SELECTED MATERIAL TYPE A SHALL BE COBBLE FREE (8" MINUS).
  5. SELECTED MATERIAL TYPE A SHALL BE UNDERLAIN WITH GEOTEXTILE, AMOCO 2002 OR EQUIVALENT.
  6. ALL EXISTING SLOPES SHALL RECEIVE 4" OF TOP SOIL AND SEEDING.
  7. EXISTING CROPS SHALL REMAIN THROUGHOUT PROPOSED ROAD ALIGNMENT.
  8. IN WETLAND AREAS CONTRACTOR MAY NOT PLACE FILL, REMOVE NATIVE MATERIAL, OR RUN EQUIPMENT OUTSIDE DESIGNATED CONSTRUCTION ZONE AS MARKED IN FIELD BY THE ENGINEER.
  9. PULLOUT AT STATION 327+40 HAS 25' TRANSITIONS INSTEAD OF THE STANDARD 50' TRANSITIONS SHOWN IN THE DETAIL.

## TYPICAL ACCESS ROAD PULLOUT

SCALE: N.T.S.

A  
10

PROJECT HVMS EXPLORATION PROJECT T

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W SM

PURF UNOCAL, POA-2004-449-4  
APPL 03/31/2004 Sheet 11 of 12

APPL

REVISION: 2  
DATE: 3/22/04  
DRAWN BY: CRM  
SCALE: N/A  
PROJECT NO. 033102  
BOOK NO. 03-01  
SHEET 10 OF 11



Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 466 SOLDOTNA, AK 99669  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

UNOCAL TB

## WETLANDS IMPACT SUMMARY: NEW CONSTRUCTION

WETLAND DESCRIPTION	BEGINNING STATION ENDING STATION	LENGTH (LF)	PROPOSED WIDTH (FT)	FOOT PRINT AREA	FILL VOLUME (CY)
LARGE WETLAND (NO. 1) DRAINING NORTH TO CLAM CREEK AND SOUTH INTO A TRIBUTARY OF STARISKY CREEK.	252+05 265+69	1364	18	40458 (SF) 0.929 (AC)	3780
LARGE WETLAND (NO. 2) DRAINING NORTH TO CLAM CREEK.	308+47 311+60	313	18	8623 (SF) 0.198 (AC)	790
LARGE WETLAND (NO. 2) DRAINING NORTH TO CLAM CREEK.	316+33 317+85	152	18	3123 (SF) 0.072 (AC)	330
CLAM CREEK AND SURROUNDING WETLANDS (NO. 3). SEE SHEET 7 FOR BRIDGE CROSSING PLAN VIEW.	328+29 330+78	249	18	10445 (SF) 0.240 (AC)	1940
TOTAL AREAS				62649 (SF) 1.438 (AC)	6840 CY

### NOTES

1. AREAS BASED ON PROJECTED CUT / FILL DAYLIGHT LINES FROM CROSS SECTIONAL TEMPLATE ANALYSIS.
2. CLAM CREEK IMPACT AREA FIGURES INCLUDES THE AREA IN CLAM CREEK UNDER THE PROPOSED BRIDGE EVEN THOUGH NO FILL WILL BE PLACED IN CLAM CREEK.

PROJECT HVMS EXPLORATION PROJEC T

LOCATION ACCESS ROAD AND PAD IN T02S R14W,  
T03S R14W, T03S R13W, T02S R13W SM

REVISION: 2

DATE: 3/22/04

DRAWN BY: CRM

SCALE: N/A

PROJECT NO. 033102

BOOK NO. 03-01

SHEET

11 OF 11

PURPOSE

UNOCAL, POA-2004-449-4  
03/31/2004 Sheet 12 of 12

APPLICANT



Consulting Group  
Testing

ENGINEERING / MAPPING / SURVEYING / TESTING  
P.O. BOX 468 SOLDOTNA, AK 99669  
VOICE: (907) 283-4218 FAX: (907) 283-3265  
EMAIL: SAMCLANE@MCLANECG.COM

**UNOCAL**

# STATE OF ALASKA

OFFICE OF THE GOVERNOR

## DEPT. OF ENVIRONMENTAL CONSERVATION

### DIVISION OF WATER

401 Certification Program

Non-Point Source Water Pollution Control Program

### NOTICE OF APPLICATION FOR STATE WATER QUALITY CERTIFICATION

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into navigable waters, in accordance with Section 401 of the Clean Water Act of 1977 (PL95-217), also must apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. By agreement between the U.S. Army Corps of Engineers and the Department of Environmental Conservation, application for a Department of the Army permit to discharge dredged or fill material into navigable waters under Section 404 of the Clean Water Act also may serve as application for State Water Quality Certification.

Notice is hereby given that the application for a Department of the Army Permit described in the Corps of Engineers' Public Notice No. **POA-2004-449-4, Clam Creek**, serves as application for State Water Quality Certification from the Department of Environmental Conservation.

After reviewing the application, the Department may certify that there is reasonable assurance that the activity, and any discharge that might result, will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. The Department also may deny or waive certification.

Any person desiring to comment on the project with respect to Water Quality Certification may submit written comments within 30 days of the date of the Corps of Engineer's Public Notice to:

Department of Environmental Conservation  
WQM/401 Certification  
555 Cordova Street  
Anchorage, Alaska 99501-2617  
Telephone: (907) 269-7564  
FAX: (907) 269-7508



# STATE OF ALASKA

**DEPARTMENT OF NATURAL RESOURCES  
OFFICE OF PROJECT MANAGEMENT AND PERMITTING**

JOINT PIPELINE OFFICE  
411 WEST 4<sup>TH</sup> AVENUE, SUITE C  
ANCHORAGE, ALASKA 99501-2343  
PHONE: (907) 257-1351/FAX: (907) 272-3829

**NOTICE OF APPLICATION  
FOR  
CERTIFICATION OF CONSISTENCY WITH THE  
ALASKA COASTAL MANAGEMENT PROGRAM**

Notice is hereby given that a request is being filed with the Office of Project Management and Permitting for a consistency determination, as provided in Section 307(c)(3) of the Coastal Zone Management Act of 1972, as amended [16 U.S.C. 1456(c)(3)], that the project described in the Corps of Engineers Public Notice No. **POA-2004-449-4, Clam Creek**, will comply with the Alaska Coastal Management Program and that the project will be conducted in a manner consistent with that program.

This project is being reviewed for consistency with the Alaska Coastal Management Program. Written comments about the consistency of the project with the applicable ACMP statewide standards and district policies must be submitted to the Office of Project Management and Permitting. For information about this consistency review, contact OPMP at (907) 257-1351, or visit the ACMP web site at <http://www.alaskacoast.state.ak.us>.